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35	US 6222559 B1	20010424	Method and apparatus for display of hierarchical structures	345/440
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37	US 6047122 A	20000404	System for method for performing a context switch operation in a massively parallel computer system	718/108
38	US 6044361 A	20000328	Fast inventory matching algorithm for the process industry	705/28
39	US 6028987 A	20000222	Method of operation of arithmetic and logic unit, storage medium, and arithmetic and logic unit	716/3

	Document ID	Issue Date	Title	Current OR
40	US 5970244 A	19991019	Method of performing a reverse analysis of a program and its apparatus	717/124
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52	US 4737921 A	19880412	Three dimensional medical image display system	345/421

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54	US 4464650 A	19840807	Apparatus and method for compressing data signals and restoring the compressed data signals	341/51
55	US 3789360 A	19740129	CONVOLUTIONAL DECODER	714/792
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1 [XML stream processing using tree-edit distance embeddings](#)



Minos Garofalakis, Amit Kumar

March 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 1

Publisher: ACM Press

Full text available: [pdf\(726.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose the first known solution to the problem of correlating, in small space, continuous streams of XML data through approximate (structure and content) matching, as defined by a general tree-edit distance metric. The key element of our solution is a novel algorithm for obviously embedding tree-edit distance metrics into an L_1 vector space while guaranteeing a (worst-case) upper bound of $O(\log^2 n \log \epsilon n)$ on the distance distortion between ...

Keywords: XML, approximate query processing, data streams, data synopses, metric-space embeddings, tree-edit distance

2 [A parallel algorithm for record clustering](#)



Edward Omiecinski, Peter Scheuermann

December 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.82 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present an efficient heuristic algorithm for record clustering that can run on a SIMD machine. We introduce the P-tree, and its associated numbering scheme, which in the split phase allows each processor independently to compute the unique cluster number of a record satisfying an arbitrary query. We show that by restricting ourselves in the merge phase to combining only sibling clusters, we obtain a parallel algorithm whose speedup ratio is optimal in the number of processors used. Final ...

3 [Parsing some constrained grammar formalisms](#)

In this paper we present a scheme to extend a recognition algorithm for Context-Free Grammars (CFG) that can be used to derive polynomial-time recognition algorithms for a set of formalisms that generate a superset of languages generated by CFG. We describe the scheme by developing a Cocke-Kasami-Younger (CKY)-like pure bottom-up recognition algorithm for Linear Indexed Grammars and show how it can be adapted to give algorithms for Tree Adjoining Grammars and Combinatory Categorical Grammars. Th ...

4 Algorithms for scalable synchronization on shared-memory multiprocessors



John M. Mellor-Crummey, Michael L. Scott

February 1991 **ACM Transactions on Computer Systems (TOCS)**, Volume 9 Issue 1

Publisher: ACM Press

Full text available: [pdf\(3.07 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Busy-wait techniques are heavily used for mutual exclusion and barrier synchronization in shared-memory parallel programs. Unfortunately, typical implementations of busy-waiting tend to produce large amounts of memory and interconnect contention, introducing performance bottlenecks that become markedly more pronounced as applications scale. We argue that this problem is not fundamental, and that one can in fact construct busy-wait synchronization algorithms that induce no memory or interc ...

5 Research papers: graph and tree-structured data: Similarity evaluation on tree-structured data



Rui Yang, Panos Kalnis, Anthony K. H. Tung

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: [pdf\(501.04 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Tree-structured data are becoming ubiquitous nowadays and manipulating them based on similarity is essential for many applications. The generally accepted similarity measure for trees is the edit distance. Although similarity search has been extensively studied, searching for similar trees is still an open problem due to the high complexity of computing the tree edit distance. In this paper, we propose to transform tree-structured data into an approximate numerical multidimensional vector which ...

6 The hB-tree: a multiattribute indexing method with good guaranteed performance



David B. Lomet, Betty Salzberg

December 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: [pdf\(2.58 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A new multiattribute index structure called the hB-tree is introduced. It is derived from the K-D-B-tree of Robinson [15] but has additional desirable properties. The hB-tree internode search and growth processes are precisely analogous to the corresponding processes in B-trees [1]. The intranode processes are unique. A k-d tree is used as the structure within nodes for very efficient searching. Node splitting requires that this k-d tree be split. This produces nodes which no longer represe ...

7 Special issue: AI in engineering



D. Sriram, R. Joobhani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: [pdf\(8.79 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

8 Morphing simple polygons



Leonidas Guibas, John Hershberger

June 1994 **Proceedings of the tenth annual symposium on Computational geometry**

Publisher: ACM Press

Full text available: pdf(1.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we investigate the problem of morphing (i.e. continuously deforming) one simple polygon into another. We assume that our two initial polygons have the same number of sides n , and that corresponding sides are parallel. We show that a morph is always possible by a varying simple interpolating polygon also of n sides parallel to those of the two original ones. If we consider a uniform scaling or translation of part of the polygon as an atomic mor ...

9 A new area and shape function estimation technique for VLSI layouts

Gerhard Zimmerman

June 1988 **Proceedings of the 25th ACM/IEEE conference on Design automation**

Publisher: IEEE Computer Society Press

Full text available: pdf(745.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Area estimation of IC layouts has become an important requirement for early design and top-down chip planning tools. Especially the relation of area and aspect ratio (shape function) is necessary for chip planning. Statistical models have been published with good results for standard cell blocks with near unity aspect ratios. This paper describes a new model for the prediction of shape functions for aspect ratios up to 1:5. The model is based on the shape and connectivity of adjacent cells. ...

10 Fine tuning selection semantics in a structure editor based programming



environment: some experimental results

Dennis R. Goldenson, Marjorie B. Lewis

October 1988 **ACM SIGCHI Bulletin**, Volume 20 Issue 2

Publisher: ACM Press

Full text available: pdf(671.47 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Structure editing holds much promise for improving the quality of introductory programming education. However early structure editors have often been clumsy and counter intuitive to use. This study reports the results of a laboratory experiment in which the user interface of a structure editing environment was modified in several ways to make its semantics more closely resemble what students seem naturally to expect. Analysis suggests that it is possible to improve students' editing performance, ...

11 Active zones in CSG for accelerating boundary evaluation, redundancy elimination,



interference detection, and shading algorithms

Jaroslaw R. Rossignac, Herbert B. Voelcker

November 1988 **ACM Transactions on Graphics (TOG)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available: pdf(2.67 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Solids defined by Boolean combinations of solid primitives may be represented in

constructive solid geometry (CSG) as binary trees. Most CSG-based algorithms (e.g., for boundary evaluation, graphic shading, interference detection) do various forms of set-membership classification by traversing the tree associated with the solid. These algorithms usually generate intermediate results that do not contribute to the final result, and hence may be regarded as redundant and a source of inefficiency ...

12 Towards a metrics suite for object oriented design



Shyam R. Chidamber, Chris F. Kemerer

November 1991 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages, and applications OOPSLA '91**, Volume 26 Issue 11

Publisher: ACM Press

Full text available: [pdf\(1.59 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



13 Efficient evaluation of XML middle-ware queries



Mary Fernandez, Atsuyuki Morishima, Dan Suciu

May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: [pdf\(414.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



We address the problem of efficiently constructing materialized XML views of relational databases. In our setting, the XML view is specified by a query in the declarative query language of a middle-ware system, called SilkRoute. The middle-ware system evaluates a query by sending one or more SQL queries to the target relational database, integrating the resulting tuple streams, and adding the XML tags. We focus on how to best choose the SQL queries, without having control over the target RDBM ...

14 Information integration with attribution support for corporate profiles



Thomas Lee, Melanie Chams, Robert Nado, Michael Siegel, Stuart Madnick

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(845.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



The proliferation of electronically available data within large organizations as well as publicly available data (e.g. over the World Wide Web) poses challenges for users who wish to efficiently interact with and integrate multiple heterogeneous sources. This paper presents CI3, a corporate information integrator, which applies XML as a tool to facilitate data mediation and integration amongst heterogeneous sources in the context of financial analysts creating corporate ...

Keywords: XML, attribution, data integration, data mediation, metadata

15 Event and state-based debugging in TAU: a prototype



Sameer Shende, Janice Cuny, Lars Hansen, Joydip Kundu, Stephen McLaughry, Odile Wolf


January 1996 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**

Publisher: ACM Press

Full text available: [pdf\(1.49 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



16 Post-optimization and incremental refinement of R-trees

 Yv  n J. Garcia, Mario A. L  pez, Scott T. Leutenegger
November 1999 **Proceedings of the 7th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available:  [pdf\(208.97 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


17 A focus+context technique based on hyperbolic geometry for visualizing large hierarchies

 John Lamping, Ramana Rao, Peter Pirolli
May 1995 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available:  [html\(38.68 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


18 A polylog(n)-competitive algorithm for metrical task systems

 Yair Bartal, Avrim Blum, Carl Burch, Andrew Tomkins
May 1997 **Proceedings of the twenty-ninth annual ACM symposium on Theory of computing**


Publisher: ACM Press

Full text available:  [pdf\(1.42 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 A language for specifying recursive traversals of object structures

 Johan Ovlinger, Mitchell Wand
October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '99**, Volume 34 Issue 10


Publisher: ACM Press

Full text available:  [pdf\(1.10 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a domain-specific language for specifying recursive traversals of object structures, for use with the visitor pattern. Traversals are traditionally specified as iterations, forcing the programmer to adopt an imperative style, or are hard-coded into the program or visitor. Our proposal allows a number of problems best approached by recursive means to be tackled with the visitor pattern, while retaining the benefits of a separate traversal specification.

Keywords: recursive programming, separation of concerns, visitor pattern

20 ViMer: a visual debugger for mercury

 M. Cameron, M. Garc  a de la Banda, K. Marriott, P. Moulder
August 2003 **Proceedings of the 5th ACM SIGPLAN international conference on Principles and practice of declarative programming**

Publisher: ACM Press

Full text available:  [pdf\(236.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

ViMer is a visual debugging environment for Mercury programs which has three main contributions. First, it employs a new execution tree representation, the layered AND-OR tree, which we believe provides a better way of visualizing backtracking in AND-OR-like

trees. Second, it uses incremental constraint-solving to efficiently draw and incrementally update the visualization of the execution tree. And finally, it borrows techniques from standard tracers (such as the use of spy points to reduce the ...

Keywords: execution trees, incremental tree layout, visualization

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